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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,202	06/16/2006	David John Hampson	34141-US-PCT	2206
1095 NOVARTIS	7590 10/01/20	07	EXAMINER .	
CORPORATE	INTELLECTUAL PR	RUSSEL, JEFFREY E		
	H PLAZA 104/3 VER, NJ 07936-1080	·	ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/583,202	HAMPSON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jeffrey E. Russel	1654				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION B6(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 16 Ju 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) ⊠ Claim(s) <u>1,2,6-9,11,13-18,20-24 and 27-30</u> is/a 4a) Of the above claim(s) is/are withdrav 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) <u>1,2,6-9,11,13-18,20-24 and 27-30</u> are	vn from consideration.	tion requirement.				
Application Papers		·				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examine 10.	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119	•					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)	•					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te				

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1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1 and 27-30, and claim 24 (in part), drawn to polypeptides, and fragments and homologues thereof.

Group II, claim(s) 2, 6, 7, and 15, and claim 24 (in part), drawn to polynucleotides encoding the polypeptides, and kits comprising the polynucleotides.

Group III, claim(s) 8, 9, and 17, and claim 24 (in part), drawn to antibodies specific for the polypeptides, and kits comprising the same.

Group IV, claim(s) 11, drawn to a method of screening a sample for Brachyspira species using the polynucleotides.

Group V, claim(s) 13, drawn to a method of screening a sample for the polypeptide using the antibodies.

Group VI, claim(s) 14, drawn to a method of screening a sample for the antibodies using the polypeptides.

Group VII, claim(s) 18, 20, and 23 (in part), drawn to a therapeutic method of using the polypeptides to treat a disease.

Group VIII, claim(s) 18, 20, and 23 (in part), drawn to a therapeutic method of using the polynucleotides to treat a disease.

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Group IX, claim(s) 21 and 22 (in part), drawn to a method of using the polynucleotides to immunize against a disease.

Group X, claim(s) 21 and 22 (in part), drawn to a method of using the polypeptides to immunize against a disease.

The inventions listed as Groups I-X do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: There is no significant structural feature in common among the claimed products of Groups I-III. The products exhibit materially different activities and undergo materially different biochemical reactions in vivo. The methods of Groups IV-VI lack the same or corresponding special technical feature because of the materially different reagents involved therein, and because of the materially different results produced by each screening method. The screening methods of Groups IV-VI lack the same or corresponding special technical feature with respect to the in vivo methods of Groups VII-X, because of the materially different method steps recited in the claims, and because of the materially different results produced by each method. The therapeutic methods of Groups VII and VIII lack the same or corresponding special technical feature with respect to the immunization methods of Groups IX and X, because of the materially different results produced by each method. Treating a disease is materially different than preventing a disease by immunization. The methods of Groups VII and X lack the same or corresponding special technical feature with respect to the methods of Groups VIII and IX, because there is no significant structural feature in common between the polypeptides of former and the polynucleotides of the latter, and because the polypeptides and polynucleotides will undergo materially different biochemical reactions in

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vivo. In addition, the X references identified in the International Search Report are further evidence that the invention as claimed lacks the same or corresponding special technical feature.

If Applicants elect the invention of Group I, they may also elect one of Groups VI, VII, or X to be examined therewith. If Applicants elect the invention of Group II, they may also elect one of Groups IV, VIII, and IX to be examined therewith. If Applicants elect the invention of Group III, the invention of Group V will be examined therewith. See 37 CFR 1.475(b)(2). However, multiple patentably distinct methods of using a product do not necessarily satisfy the requirements of unity of invention, and will not all be examined together with the elected product. See 37 CFR 1.475(c) and (d).

2. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

With respect to Groups I, VI, VII, and X, the species are the polypeptides, fragments thereof, and homologues thereof, for SEQ ID NOS:2, 4-6, and 8-22. With respect to Groups II, IV, VII, and IX, the species are the polynucleotides encoding the polypeptides of SEQ ID NOS:2, 4-6, and 8-22, or having SEQ ID NO:1. With respect to Groups III and V, the species are antibodies specific for the polypeptides of SEQ ID NOS:2, 4-6, and 8-22. All claims are generic to the species set forth above.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: The species are patentably distinct from one another

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and lack the same or corresponding special technical feature because of their materially different sequences and structures. Each species will require a separate sequence and/or structure search, which constitutes an undue examination burden on the Office. In addition, the X references identified in the International Search Report are further evidence that the claimed species lack the same or corresponding special technical feature.

Applicant is required, in reply to this action, to elect a single species (i.e. a single polypeptide SEQ ID NO, a polynucleotide encoding a single polypeptide SEQ ID NO or having SEQ ID NO:1, or an antibody which binds to a single polypeptide SEQ ID NO) to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

3. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and

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specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey E. Russel at telephone number (571) 272-0969. The examiner can normally be reached on Monday-Thursday from 8:00 A.M. to 5:30 P.M. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Cecilia Tsang can be reached at (571) 272-0562. The fax number for formal communications to be entered into the record is (571) 273-8300; for informal communications such as proposed amendments, the fax number (571) 273-0969 can be used. The telephone number for the Technology Center 1600 receptionist is (571) 272-1600.

Jeffrey E. Russel Primary Patent Examiner Art Unit 1654

JRussel September 17, 2007